

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S146	4826	(chalco<genide GeSbTe germanium near antimony near tellurium germanium\$1antimony\$1tellurium)	EPO; JPO; DERWENT	OR	ON	2010/06/01 16:13
S147	1085	heat\$4 and S146	EPO; JPO; DERWENT	OR	ON	2010/06/01 16:13
S148	0	(set\$1rest rest\$1set) and S147	EPO; JPO; DERWENT	OR	ON	2010/06/01 16:13
S149	2	(set\$1reset reset\$1set) and S147	EPO; JPO; DERWENT	OR	ON	2010/06/01 16:14
S150	994	((chalcogenide)with (GeSbTe "Ge.sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium))	US-PPGUB; USPAT	OR	OFF	2010/06/01 16:15
S151	12034	((chalcogenide GeSbTe "Ge.sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium))	US-PPGUB; USPAT	OR	OFF	2010/06/01 16:16
S152	9	(set\$1reset reset\$1set) and heat\$4 near7 (dielectric insulat\$4) and S150	US-PPGUB; USPAT	OR	ON	2010/06/01 16:16
S153	19	(("JIN HYOCK") near2 (KIM)).INV.	US-PPGUB; USPAT	OR	OFF	2010/06/01 16:18
S154	91	(("KEE JEUNG") near2 (LEE).INV.	US-PPGUB; USPAT	OR	OFF	2010/06/01 16:18
S155	42	(("DEOK SIN") near2 (KIL)).INV.	US-PPGUB; USPAT	OR	OFF	2010/06/01 16:19
S156	1	(S153 S154 S155 hynix.as.) and S150	US-PPGUB; USPAT	OR	ON	2010/06/01 16:20
S157	36	(S153 S154 S155 hynix.as.) and S151	US-PPGUB; USPAT	OR	ON	2010/06/01 16:20
S158	40	(set\$1reset reset\$1set) and heat\$4 near7 (dielectric insulat\$4) and S151	US-PPGUB; USPAT	OR	ON	2010/06/01 16:23
S159	31	S158 not S152	US-PPGUB; USPAT	OR	ON	2010/06/01 16:24
S160	7	((@ad<"20030804" @l@d<"20030804") and S159	US-PPGUB; USPAT	OR	ON	2010/06/01 16:25

S161	143	heat\$4 near7 (dielectric insulat\$4) and S150	US-PGPUB; USPAT	OR	ON	2010/06/01 16:38
S162	90	time and S161	US-PGPUB; USPAT	OR	ON	2010/06/01 16:38
S163	48	time near5 (reduc\$4 increas \$4 decreas\$4 short\$5) and S161	US-PGPUB; USPAT	OR	ON	2010/06/01 16:38
S164	3	(@ad<"20030804" @lqd< "20030804") and S163	US-PGPUB; USPAT	OR	ON	2010/06/01 16:39
S165	1169	heat\$4 near7 (dielectric insulat\$4) and S151	US-PGPUB; USPAT	OR	ON	2010/06/01 16:43
S166	516	time near5 (reduc\$4 increas \$4 decreas\$4 short\$5) and S165	US-PGPUB; USPAT	OR	ON	2010/06/01 16:44
S167	256	(@ad<"20030804" @lqd< "20030804") and S166	US-PGPUB; USPAT	OR	ON	2010/06/01 16:44
S168	1676	((chalogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)with (dop\$5 species))	US-PGPUB; USPAT	OR	OFF	2010/06/01 16:45
S169	523	time near5 (reduc\$4 increas \$4 decreas\$4 short\$5) and S168	US-PGPUB; USPAT	OR	ON	2010/06/01 16:45
S170	276	(@ad<"20030804" @lqd< "20030804") and S169	US-PGPUB; USPAT	OR	ON	2010/06/01 16:45
S171	26	heat\$4 near7 (dielectric insulat\$4) and S170	US-PGPUB; USPAT	OR	ON	2010/06/01 16:46
S172	298	"5933365"	US-PGPUB; USPAT	OR	ON	2010/06/01 20:01
S173	186	(@ad<"20030804" @lqd< "20030804") and S172	US-PGPUB; USPAT	OR	ON	2010/06/01 20:02
S174	123	(ti titanium) and S173	US-PGPUB; USPAT	OR	ON	2010/06/01 20:02
S175	6	(ti titanium) same (nitrogen) and S173	US-PGPUB; USPAT	OR	ON	2010/06/01 20:02
S176	109	((chalogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)and S174)	US-PGPUB; USPAT	OR	OFF	2010/06/01 20:03
S177	39	(impurit\$5 dop\$5) near21(ti titanium) and S173	US-PGPUB; USPAT	OR	ON	2010/06/01 20:05

S178	30	((chalogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium))and S177	US-PGPUB; USPAT	OR	OFF	2010/06/01 20:06
S179	1742	((chalogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium))same (ti titanium)	US-PGPUB; USPAT	OR	OFF	2010/06/01 20:09
S180	326	((chalogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium))same (impurity\$5 dop\$5 species) near21(ti titanium)	US-PGPUB; USPAT	OR	OFF	2010/06/01 20:10
S181	97	(@ad<"20030804" @lad>"20030804") and S180	US-PGPUB; USPAT	OR	ON	2010/06/01 20:10
S182	2365	((chalogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)).ti.	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/01 21:16
S183	63	(ti titanium) same (n nitrogen) and S182	US-PGPUB; USPAT	OR	OFF	2010/06/01 21:17
S184	25	(dop\$4 species element\$2) near21(ti titanium) same (n nitrogen) and S182	US-PGPUB; USPAT	OR	OFF	2010/06/01 21:21
S185	2	(ti titanium) same (nitrogen) and S182	US-PGPUB; USPAT	OR	OFF	2010/06/01 21:45
S186	7743	((chalogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)).ab,clm.	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/01 21:49
S187	3599	((chalogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)).ab,clm.	US-PGPUB; USPAT; USOOR; FPRS; IBM_TDB	OR	OFF	2010/06/01 21:49
S188	0	(dop\$4 species element\$2) near21(group\$iii and group \$1VI) and S182	US-PGPUB; USPAT	OR	OFF	2010/06/01 21:51

S189	13	(dop\$4 species element\$2) near21(group\$iii and group \$1VI)	US-PGPUB; USPAT	OR	OFF	2010/06/01 21:51
S190	1	((chalcogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium))and S189	US-PGPUB; USPAT	OR	OFF	2010/06/01 21:53
S191	307	((dop\$4 species dop\$4) near21((chalcogenide GeSbTe "Ge.sub."\$4 near "Sb.sub."\$4 near "Te. sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium))).clm.	US-PGPUB; USPAT	OR	OFF	2010/06/01 21:58
S192	4704	(dop\$4 species dop\$4) near21((group\$iii al b ti boron titanium aluminum)and (nitrogen as bi sn bismuth arsen\$4 tin group\$1VI)).clm.	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:00
S193	29	S191 and S192	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:01
S194	12	("20030152867" "20030209746" "20030214857" "20040234895" "20050202200" "20060193231" "4710899" "5177567" "5581539" "6437383" "6969633" "7119353").PN.	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:09
S195	1	(source) near21(ti titanium) same (n nitrogen) and S182	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:23
S196	7	("20070054475" "20080108174" "20080265236" "20080272355" "20080308785" "5662819" "7569909").PN.	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:27
S197	26	((chalcogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium))and (source) near21(ti titanium) same (n nitrogen)	US-PGPUB; USPAT; USOOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/06/01 22:31
S198	153	"6437383"	USPAT	OR	OFF	2010/06/01 22:46
S199	17	S198 and (ti titanium) same (n nitrogen)	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:48

S200	3	((dop\$4 species dop\$4 source) near21((titanium)and (nitrogen n)) and S198	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:51
S201	402	((dop\$4 species dop\$4 source) near21((titanium)and (nitrogen n))).ab.clm.	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:52
S202	14	((chalcogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium) and S201	US-PGPUB; USPAT	OR	OFF	2010/06/01 22:52
S203	45	((chalcogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)near21 ((dop\$4 species dop\$4 source) near21(titanium))	US-PGPUB; USPAT	OR	OFF	2010/06/01 23:01
S204	187	((chalcogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)near21 ((dop\$4 species dop\$4 source) near21(titanium ti))	US-PGPUB; USPAT	OR	OFF	2010/06/01 23:01
S205	556	((chalcogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)near21 ((dop\$4 species dop\$4 source) near21(nitrogen n))	US-PGPUB; USPAT	OR	OFF	2010/06/01 23:02
S206	104	S204 and S205	US-PGPUB; USPAT	OR	OFF	2010/06/01 23:02
S207	6	((@ad<"20030804" @rlad<"20030804") and S206	US-PGPUB; USPAT	OR	ON	2010/06/01 23:03
S208	4	((chalcogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)near21 ((dop\$4 species dop\$4 source) near21(nitrogen n)) and ((chalcogenide GeSbTe "Ge. sub."\$4 near "Sb.sub."\$4 near "Te.sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)near21 ((dop\$4	EPO; JPO; DERWENT	OR	OFF	2010/06/01 23:05

		species dop\$4 source) near21(titanium ti))				
S209	2	((phase adj change)near21 ((dop\$4 species dop\$4 source) near21(nitrogen n)) and ((phase adj change) near21 ((dop\$4 species dop \$4 source) near21(titanium ti)))	EPO; JPO; DERWENT	OR	OFF	2010/06/01 23:10
S210	16	((phase adj change)and((dop \$4 species dop\$4 source) near21(nitrogen n))and ((dop \$4 species dop\$4 source) near21(titanium ti))	EPO; JPO; DERWENT	OR	OFF	2010/06/01 23:11
S211	0	((phase adj change)and((dop \$4 species dop\$4 source) near21(group\$1v))and ((dop \$4 species dop\$4 source) near21(group\$1iii))	EPO; JPO; DERWENT	OR	OFF	2010/06/01 23:15
S212	0	((phase adj change)near21 ((dop\$4 species dop\$4 source) near21(group\$1v)) and ((phase adj change) near21((dop\$4 species dop \$4 source) near21(group \$1iii)))	US-PGPUB; USPAT	OR	OFF	2010/06/01 23:16
S213	11	((phase adj change)with((dop \$4 species dop\$4 source) near21(nitrogen n))and ((phase adj change)with((dop \$4 species dop\$4 source) near21(titanium ti)))	US-PGPUB; USPAT	OR	OFF	2010/06/01 23:17
S214	10	("20030152867" "20030209748" "20030214857" "20040234895" "20050202200" "20060193231" "4710899" "5177567" "5581539" "6437383" "6969633" "7119353").FN. and(heat\$5) near21 (crystal\$6 amorphous cooling)	US-PGPUB; USPAT	OR	OFF	2010/06/02 10:33
S215	90	((STEPHEN) near2 (HUDGENS).INV.	US-PGPUB; USPAT	OR	OFF	2010/06/02 10:54
S216	459	((TYLER) near2 (LOWREY)). INV.	US-PGPUB; USPAT	OR	OFF	2010/06/02 10:54
S217	481	257/E31.026[257/E31.027] 257/E31.028 cds.	US-PGPUB; USPAT	OR	ON	2010/06/02 11:58
S218	0	diffus\$4 near3 (ion\$2 atom \$2)near4 chalco\$6 near5 heat\$4	EPO; JPO; DERWENT	OR	ON	2010/06/02 12:46

S219	15	diffus\$4 near3 (ion\$2 atom \$2)near4 chalco\$6	EPO; JPO; DERWENT	OR	ON	2010/06/02 12:46
S220	12	("20030152867" "20030209746" "20030214857" "20040234895" "20050202200" "20060193231" "4710899" "5177567" "5581539" "6437383" "6969633" "7119353").PN.	US-PGPUB; USPAT	OR	OFF	2010/06/02 12:54
S221	7	"3656029" and dop\$4	US-PGPUB; USPAT	OR	OFF	2010/06/02 12:57

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S222	516	((TYLER) near2 (LOWREY)).INV. ((STEPHEN) near2 (HUDGENS)).INV.	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 10:54
S223	1	heat\$4 near5 (penetrat\$4 exten\$4) near11 (dielectric insulat\$4 ild oxide) and S222	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 10:56
S224	12347	(chalogenide GeSbTe "Ge. sub."\$4 near "Sb. sub."\$4 near "Te. sub."\$3 germanium near antimony near tellurium germanium\$1antimony \$1tellurium)	US-PGPUB; USPAT; UPAD	OR	OFF	2010/06/02 10:57
S225	82	heat\$4 near5 (penetrat\$4 exten\$4) near11 (dielectric insulat\$4 ild oxide) and S224	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 10:57
S226	27	(@ad-<"20030804" @rlad-<"20030804") and S225	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:26
S227	0	(chalogenide) with ("Ge. sub."\$4 near5 "Sb. sub."\$4 near5 "Te. sub."\$3 near5 "ti. sub."\$4)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:38
S228	0	(chalogenide) with ("Ge. sub."\$4 near5 "Sb. sub."\$4 near5 "Te. sub."\$3 near5 "n. sub."\$4)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:39
S229	172	((chalogenide) with ("Ge. sub."\$4 near5 "Sb. sub."\$4 near5 "Te. sub."\$3))	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:39
S230	1944811	(speed time) near5 (reduc\$4 increas\$4 decreas\$4 short\$5)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:40

S231	845867	(size grain) near5 (reduc\$4 increase\$4 decreas\$4 short\$5)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:41
S232	52	S229 and S230	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:41
S233	9	S231 and S232	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:41
S234	854	(doped dopant doping) near2 (chalco\$6)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:48
S235	284	S234 and S230	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:48
S236	122	S231 and S235	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:49
S237	63	(@ad<"20030804" @rlad<"20030804") and S236	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:49
S238	0	(ti\$1doped ti near dopant ti near doping) near2(chalco\$6)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:51
S239	2	(n\$1doped n near dopant n near doping) near2(chalco\$6)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:51
S240	143	((doped dopant doping) near2 (chalco\$6)) same (transition \$4 adj metal\$2)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:52
S241	49	S240 and S230	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:53
S242	17	(@ad<"20030804" @rlad<"20030804") and S241	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:53
S243	485	257/E31.026 257/E31.027 257/E31.029.ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 11:58
S244	1551	257/3-5 438/900.ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:05
S245	42	S243 and S244	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:05
S246	10	(@ad<"20030804" @rlad<"20030804") and S245	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:05
S247	195	"5933365" and (ti titanium transitional)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:13

S248	123	((@ad<"20030804" @riad<"20030804") and S247	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:19
S249	1	heat\$4 near5 (penetrat\$4 exten\$4) near11 (dielectric insulat\$4 iid oxide) and S248	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:27
S250	79	heat\$4 and S248	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:28
S251	28	heat\$4 near11 (set\$1reset reset\$1set crystal\$6 amorphous)and S248	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:29
S252	90	"5933365" and (ti titanium transitional)same (chalcogen\$6 phase adj chang\$5)	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:31
S253	39	((@ad<"20030804" @riad<"20030804") and S252	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:31
S254	6	heat\$4 near11 (set\$1reset reset\$1set crystal\$6 amorphous)and S253	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:32
S255	2	diffus\$4 near3 (ti titanium transitional)near4 chalcogen\$6	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:37
S256	5	diffus\$4 near3 (ion\$2 atom\$2) near4 chalcogen\$6 near5 heat\$4	US-PGPUB; USPAT; UPAD	OR	ON	2010/06/02 12:39

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